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**COSMOS  
ORANGE  
FLARE**

Gold  
Medal  
Winner,  
1935

Pkt. 20c

*Bulbs and Novelty Flower Seeds  
for Spring Planting*

**GARDENVILLE BULB GROWERS**  
**TACOMA, WASHINGTON**

POSTMASTER — RETURN POSTAGE GUARANTEED

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TACOMA, WASH.  
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U.S. Dept. of Agric.  
Bureau of Plant Industry  
Div. of Fruit & Veg.  
Crops & Diseases  
Washington, D. C.





*Lilium Regale*

# LILIES

AND

## Montbretias

Spring is the better time to plant many Lilies. The varieties we offer are all for immediate shipment for spring planting and will flower this season.



*The Leopard Lily (Lilium Pardalinum)*

### LILIUM REGALE

A truly royal Lily.  
The most popular and beautiful of all lilies for outdoor planting. Thrives anywhere. Flowers are white, slightly suffused pink, with a canary yellow throat. Bears a profusion of funnel shaped blooms on a strong stem and grows 3 to 5 feet high. Very fragrant. Blooms in June.  
Flowering size bulbs—10 for \$1.00, postpaid.

### THE PHILIPPINE LILY (*Lilium Philippinense Formosanum*)

This new lily is rapidly increasing in popularity, as it comes into flower in late July or early August, just after L. Regale. We offer the lovely low growing Alpine variety which grows one to two feet high with two to three long slender white trumpet flowers. We can only supply very small bulbs, but these will flower this season.

6 for 50c; 15 for \$1.00, postpaid.

### THE DAINTY CORAL LILY (*Lilium Tenuifolium*)

The rich, deep, waxy scarlet flowers of this small slender lily make it a favorite for the border or rock garden. Flowers in early June and grows to a height of 18 inches.

Good flowering sized bulbs—10 for \$1.00, postpaid.

### THE LEOPARD LILY (*Lilium Pardalinum*)

A clump of this hardy and easy to grow lily makes a bright and attractive spot in the garden. The recurved petals are brilliant orange-scarlet with a base and center of gold. Height 3 to 5 feet.

Very large double crown bulbs—4 for \$1.00, postpaid.

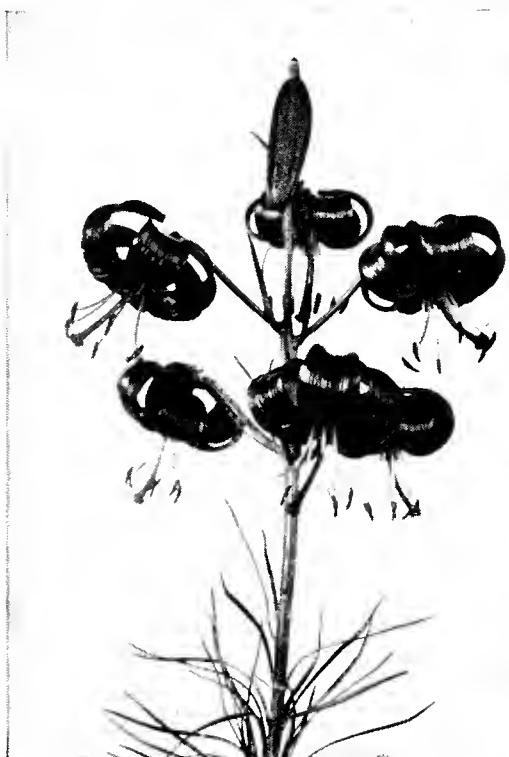
### NEW GIANT MONTBRETIA—EARLHAM HYBRIDS

As cut flowers Montbretias are lovely. They bloom during the summer months, and form splendid clumps in the garden. Their culture is easy, being practically the same as Gladiolus, and prefer a light loamy soil well-enriched with leaf mold.

**MARJORIE**—Rich golden-orange shading to canary-yellow, with crimson center. The large flowers are perfectly flat when fully open. 12 bulbs for \$1.00, postpaid.

**KATHLEEN**—Large broad petaled flowers of great substance. Bright orange shading off to crimson edges with center of primrose. 8 bulbs for \$1.00, postpaid.

**GARDENVILLE BULB GROWERS, Tacoma, Washington**



*The Dainty Coral Lily (Lilium Tenuifolium)*



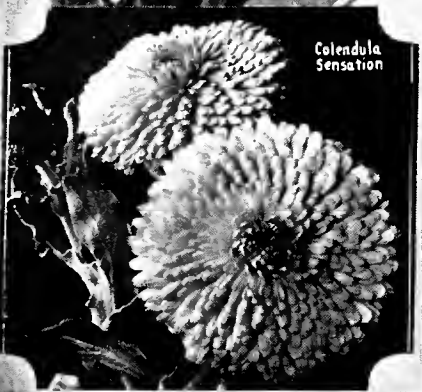
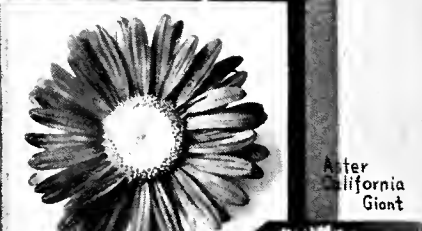
*Lilium Philippinense*



*Montbretia, Marjorie*







Aster Super Giant El Monte—Pkt. 25c

**ASTER SUPER GIANT EL MONTE**  
Special Mention, All-American Selections, 1936

El Monte was awarded the highest rank of all the new Aster seedlings placed in competition, in 1935. Deep glowing crimson, composed of abundant quantities of daintily interlaced plume-like petals, the flowers are extremely large and fluffy, borne on heavy non-lateral, basal branched stems. It is very early blooming, and remains in flower over a long period. Pkt. 25c.

**ASTER SUPER GIANT LOS ANGELES**  
Award of Merit, All-American Selections, 1934

Los Angeles was the first introduction in the modern Super Giant class, the flowers are fully double, 6 to 8 inches across, graceful and delicately interlaced. The long, stiff stems are basal branching and strictly non-lateral, bearing the large shell pink flowers smartly upright. Pkt. 20c.

**ASTER, IMPROVED CREGO, WILT-RESISTANT STRAIN**

An improved wilt-resistant strain. Flowers are large, double and have long, narrow, gracefully curled and interlacing petals. Blooms from late August to late September. Mixed colors. Pkt. 15c.

**ASTER, NEW GIANT OF CALIFORNIA SUNSHINE**

The most beautiful Aster in the world. A large flower with its loosely placed, twisted and quilled petals surrounding a cushion center of tiny quills of a contrasting color are altogether charming. Mixed colors. Pkt. 15c.

**CALENDULA ORANGE SHAGGY**  
Gold Medal, All-American Selections, 1935

One of the most interesting introductions is the new lacinated type, Orange Shaggy. Deep orange shading lighter at the center, exceedingly graceful and informal in appearance, it is a striking contrast to the formal Calendulas in general use. The plants are free flowering, neat and compact, bearing long stems which make the fringy petaled flowers equally useful in the garden or for cutting. Pkt. 20c.

**NEW SUNSHINE CALENDULA, CHRYSANTHA**  
Gold Medal Winner, All-American Selections, 1934

A lovely, friendly newcomer. A clear, buttercup yellow in color with loosely arranged petals, incurved at center and reflexed at edges, somewhat like a Chrysanthemum. Flowers are mounted on strong, wiry stems a foot in length; excellent for cutting. Pkt. 15c.

**CALENDULA, SENSATION (Campfire)**

Reselected. The largest of all. Extremely double blossoms on long, strong stems; rich orange washed over with a sheen of scarlet. Truly an outstanding sort. Pkt. 15c.

**COREOPSIS GRANDIFLORA, DOUBLE SUNBURST**

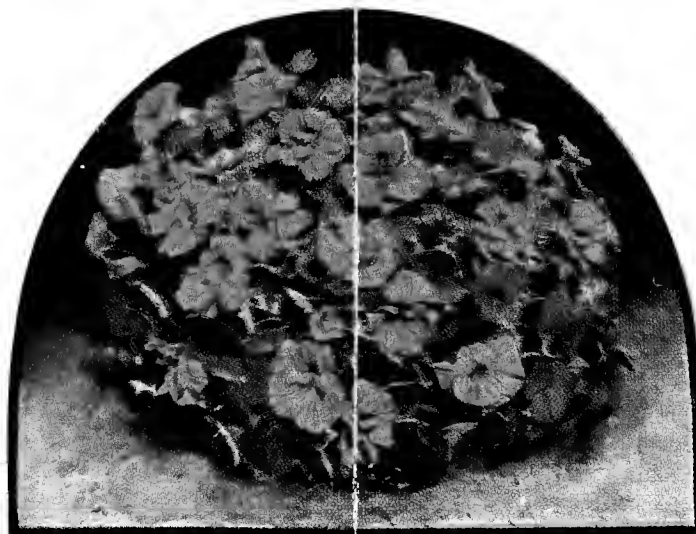
Much of the beauty of early summer gardens is due to the brilliant golden yellow of Coreopsis plantings. The double flowers are large, 1½ to 2 inches across, deep golden yellow, and are excellent for cutting as well as for garden decoration. Fine keepers; plants are easy to grow. Pkt. 15c.

**NEW ROSAMOND LARKSPUR, STOCK FLOWERED STRAIN**  
Gold Medal Winner, All-American Selections, 1934

Acclaimed the most distinct introduction. The color is a new bright rose that holds well until out of bloom. Blooms two weeks earlier than others; exceptionally uniform, bearing numerous good spikes, heavily flowered. Pkt. 15c.

**CLARK'S MAMMOTH BLUE MORNING GLORY**

A variety that is bringing new popularity to Morning Glories. It is an early blooming climber, literally covered with lovely flowers of sky-blue. Flowers 3½ inches across and blooms until frost. Pkt. 15c.



Nasturtium Bodgers Dwarf Double Gem Mixture—Pkt. 20c

## NEW ALL-AMERICAN FLOWER SEED NOVELTIES

Each year expert flower seed growers throughout the world send seed samples of their most outstanding novelties for trials to be grown in various sections of the United States. These trials are observed by competent, impartial judges for their outstanding merits. We feel certain you will be pleased with the following list of these nationally known and admired flowers. Our generous packets give full cultural directions.

All seed offered is grown by the world's finest seed growers. None better can be obtained.

## Special Offers

Good Until March 15th

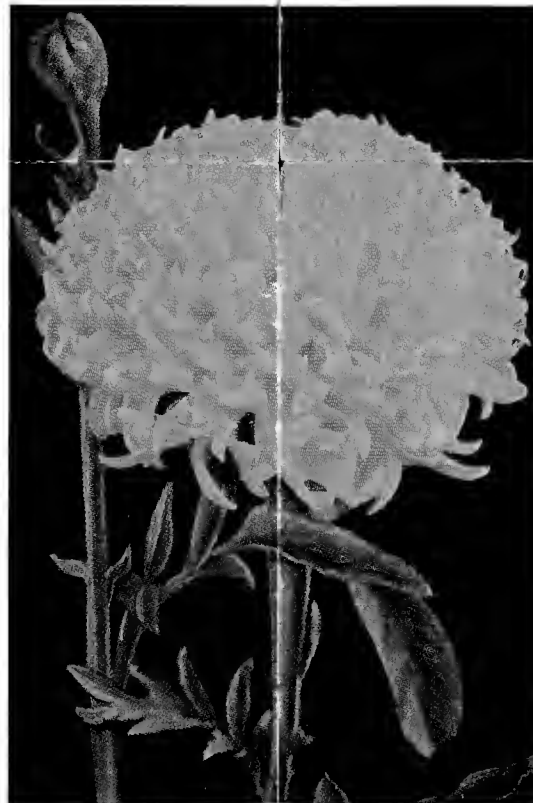
We will include 2 Pkts. seeds FREE, value 30c, your selection, with each \$2.00 order of Lily bulbs.

Seeds, value 50c, your selection, FREE with \$3.00 order of Lilies and Montbretias.

Five Philippinense Lily bulbs FREE with a \$2.00 seed order.

Five Coral Lily bulbs FREE with a \$3.00 seed order.

These free offers will be sent only when specified in your order.



Marigold Dixie Sunshine—Pkt. 25c

ALL SEEDS AND BULBS SENT POSTPAID



Rust Proof Snapdragons—Pkt. 20c

**RUST PROOF SNAPDRAGONS, CALIFORNIA GIANT MIXTURE**  
Certificate of Honor, All-American Selections, 1935

Even and compact in habit, of the popular majestic type, the plants are from 20 to 24 inches in height, and bear long spikes of close spaced, extra large florets. It comprises a fine, full color range, including exquisite shades of pink, rose, apricot, bronze, orange, light and deep yellow, scarlet, crimson and white. While not yet 100% resistant, the percentage is well above 75%. Pkt. 20c.

**COSMOS EARLY KLONDYKE ORANGE FLARE**  
Grand Champion Gold Medal, All-American Selections, 1935

Granted the highest honor that can be bestowed on a new flower. The long stemmed flowers of bright vivid orange are freely borne on two to three foot plants. Its most remarkable feature, however, is its early blooming habit. It blooms from mid-summer until frost. (See illustration on front of folder). Pkt. 20c.

**MARIGOLD DIXIE SUNSHINE**  
Award of Merit, All-American Selections, 1936

From the Land of Dixie to the gardens of the world comes this most charming Marigold. The large ball-shaped flowers are ingeniously composed of dozens of tiny five-petaled florets, gracefully interlocking, daintily fringed in effect. Brilliant golden yellow, 100% fully double, and but faintly scented. Whether in the garden, on tall, bushy plants literally smothered with blooms, or when arranged for home decoration, the strong stemmed flowers are a constant joy until frost. Pkt. 25c.

**MARIGOLD YELLOW SUPREME**  
Gold Medal, All-American Selections, 1935

Heralded as a companion to the popular Guinea Gold, it is very free flowering, compact and somewhat pyramidal in habit, 2 to 2½ feet tall, bearing loosely ruffled, light lemon yellow, carnation flowered blossoms. The characteristic Marigold odor is almost entirely lacking. Pkt. 15c.

**MARIGOLD, MEXICAN DWARF ORANGE**

Distinctly new and different in flower form. It comes from Mexico, the original home of all our garden Marigolds. The plants are semi-dwarf in habit, growing 15 to 18 inches high, freely branched, and bearing quantities of large, unique semi-tubular petaled flowers of bright orange. Pkt. 15c.

**MARIGOLD, DWARF FRENCH, DOUBLE, MONARCH STRAIN**  
Award of Merit, All-American Selections, 1934

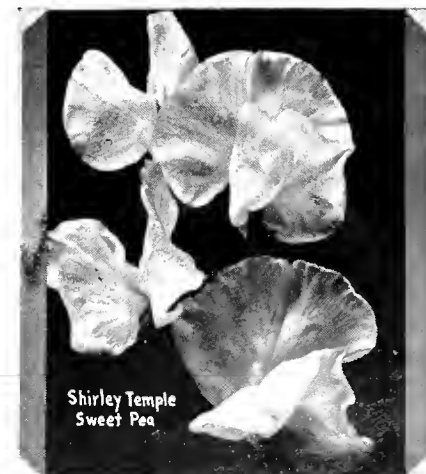
An excellent variety for low borders. A very compact type, with large double flowers, in a wide range of colors, in combination of orange, bronze, yellow and mahogany. Finest Mixed, Pkt. 15c.

**NASTURTIIUM DWARF DOUBLE GEM MIXTURE**  
Novelty Introduction, 1935

Our Gem Mixture, composed of an evenly balanced range of cheerful colors on dwarf, compact gem-like plants, is the ideal annual for border and edging use. The plants are truly dwarf and compact, totally without runners. The good sized sweet scented double flowers gaily cover the little plants in an excellent color range of yellow, orange, scarlet, crimson, salmon, cerise, cream, maroon and spotted varieties. Pkt. 20c.

**NASTURTIIUM GLORIOUS GLEAM HYBRIDS**  
Award of Merit, All-American Selections, 1935

Glorious Gleam Hybrids are delightfully sweet scented, beautifully double. The semi-dwarf plants throw short runners from well rounded free flowering bushes. The color range includes a brilliant blend of salmon, golden yellow, orange scarlet, cerise, cream, orange, maroon and crimson shades, and many spotted varieties. Finest Mixed, Pkt. 15c.





*Zinnia, Fantasy—Pkt. 20c*

#### **ZINNIA FANTASY FINEST MIXED**

**Award of Merit, All-American Selections, 1935**

The most distinctive new Zinnia. As different from the ordinary formal Zinnia as one could imagine, the delicate, lacy petaled flowers lend an air of friendly informality to the garden or flower arrangement. The rounded, medium-sized shaggy flowers are borne profusely on 2½ to 3-foot plants, in a wide and varied color range which includes the brightest shades of red, yellow and orange, as well as the popular pastel pinks and cream. **Pkt. 20c.**

#### **ZINNIA SCABIOUS FLOWERED MIXTURE**

Among the oddest and most attractive Zinnia forms, bearing a remarkable resemblance to the annual Scabiosa. The plants are extremely free flowering, 2 to 2½ feet high, giving a wealth of bloom throughout the summer. While the color range includes all popular shades, it is particularly rich in shades of crimson, scarlet, orange, yellow and pink. **Pkt. 20c.**

#### **ZINNIAS, DAHLIA FLOWERED, GOLD MEDAL STRAIN**

These are extra selected; the seed is hand picked from the best Dahlia type flowers. These are the largest and most handsome of all the Zinnias. Mixed colors. **Pkt. 15c.**

#### **ZINNIA, TOM THUMB, ALL COLORS MIXED**

These tiny flowered Zinnias have a charm the larger ones can never attain, and make a brilliant display. They come in attractive color combinations, red tipped gold, salmon and gold, primrose yellow with a hundred unusual intermediate shades. **Pkt. 15c.**

**ALL FLOWER SEED SENT POSTPAID**



*Zinnia, Scabious Type—Pkt. 20c*

#### **SHIRLEY TEMPLE EARLY FLOWERING SPENCER SWEET PEA**

This Sweet Pea is considered the most beautiful ever originated and was obtained through a cross between Pinkie and Lady Gay. It has inherited blooms with the size and richness of color in Pinkie, plus the dainty frilled and fluted flowers of Lady Gay. The color is a soft, beautiful rose pink. The flowers are the largest we have ever seen on any Sweet Pea and it has long stems with four very large blooms on each stem. It will bloom 3 to 4 weeks ahead of the late varieties. **Pkt. 25c.**

#### **CHINESE BLUE LATE SPENCER SWEET PEA**

Chinese Blue is a solid rich, deep blue. The color is solid without the objectionable fading out on the edges. Young buds, standard and wings are all one solid rich deep blue. The stems are long and bear four flowers throughout. It has strong, vigorous plants with a blooming season which is longer than that of the average Sweet Pea. **Pkt. 25c.**

#### **SWEET PEAS, LATE FLOWERING SPENCER VARIETIES**

**AMBITION**—Rosy lavender. **Pkt. 10c; oz. 25c.**

**AVALANCHE**—Glistening white. **Pkt. 10c; oz. 25c.**

**PINKIE**—Large rose pink. **Pkt. 10c; oz. 25c.**

**REFLECTION**—Clear blue. **Pkt. 10c; oz. 25c.**

**VENUS**—Cream pink. **Pkt. 10c; oz. 25c.**

**WELCOME**—Dazzling scarlet. **Pkt. 10c; oz. 25c.**

**MIXED COLORS**—Large pkt. 25c; ¼ lb. 75c.



YOU SHOULD KNOW THESE FACTS!

# MARKET GROWERS JOURNAL

FOR THE COMMERCIAL VEGETABLE PRODUCER

February 15, 1935

## Pennsylvania Certifies Tomato Seed

Story By K. W. Lauer, 1935



Top, drying the seed. Bottom, How the tomatoes look before picking.

READ THE INSIDE STORY — By Dr. Lauer

## Tomato Seed Certification In Pennsylvania

By K. W. Lauer, Pennsylvania Department of Agriculture



Washing Certified Tomato Seed.

THE purpose back of the tomato seed certification work is to make available to the tomato grower a source of seed comparatively free of diseases, of good germination and which when grown under reasonably favorable conditions will give a satisfactory crop of fruit which is uniform, characteristic as to variety and true to name. Certification should not be considered as a "cure-all" or as a guarantee against crop failure due to negligence on the part of the grower. We make no claim that Pennsylvania certified seed will outyield all other seed or that it will produce a good crop under adverse growing conditions, but we have learned during past years that buyers want good seed and that they are willing to pay a reasonable price for such seed if it carries the protection certification affords. While there may be other seed that will give just as satisfactory results as certified seed, unless a grower has absolute knowledge of conditions under which such seed was produced and cared for, it is hazardous to plant such stock. The protection certification affords is good insurance against such seed-borne diseases as wilt, bacterial canker and against varietal mixture and general lack of uniformity of fruit produced.

We started tomato seed certification work in Pennsylvania in 1930 and after five years experience, we feel that we have contributed a great deal to the improvement of at least

several varieties. This improvement was accomplished through the elimination of diseased stocks and of strains which lacked uniform varietal characteristics. Any improvement attained must necessarily come through selection, breeding and care of the seed stock. This selection and breeding work, of course, rests with the seed grower and the progress made will naturally depend on the ability of the seed grower to develop stocks that will retain these uniform, varietal characteristics over a period of several years. Stocks which do not retain and show these prominent individual characteristics associated with a particular variety are not certified. Our contribution to the improvement work, and to progress in general, is through the elimination of inferior stocks and strains.

During the spring of 1934 we changed the requirements in regard to varieties acceptable for certification. It is more or less commonly thought that some of the varieties now available to the seed trade are renamed varieties or varieties which have nothing to recommend them over other existing varieties even though they may show slight differences. Out of the scores of commercial tomato varieties now available to the seed trade, the United States Department of Agriculture in a recent publication conservatively estimated that eighty-five to ninety per cent of all tomatoes grown in the

### SUMMARY OF TOMATO SEED CERTIFICATION IN PENNSYLVANIA 1930-1934

	1930	1931	1932	1933	1934
Acres entered	211.0	128.0	108.0	291.5	292.5
Acres rejected	156.5	36.5	7.5	41.75	96.0
Acres certified	55.5	91.5	100.5	249.75	196.5

#### Pounds of Seed Certified

Varities	1930	1931	1932	1933	1934
Earlham					38
Break O'Day			13	108	650
Britchard				1,053	725
Bonny Best	200	244			205
Mozzley	2,020	2,020	6,110	6,636	14,810

The following article on "Tomato Seed Certification in Pennsylvania" by Dr. K. W. Lauer, Advanced Plant Pathologist of the Department of Agriculture of Pennsylvania, which appeared in the February 15th, 1935, issue of the Market Growers Journal, was originally delivered by Dr. Lauer in an address before the Vegetable Growers Association at the Pennsylvania Farm Show, on January 23rd, 1935.

READ IT CAREFULLY AND YOU WILL BETTER REALIZE WHAT IS BEING DONE TO PROTECT THE PLANTER AGAINST LOSS AND DISAPPOINTMENT!

United States could be placed in a group of nine varieties. While the standards established by the Pennsylvania Department of Agriculture are not all inclusive, they include a sufficient number of varieties to cover those that are of most commercial importance in Pennsylvania. The following varieties and their recognized strains or selections may be certified under our present regulations provided they conform with the generally accepted type for the variety:

Earliana (Burbank, Canadian, Penn State Earliana).

Pritchard (Scarlet Topper).  
Bonny Best (Landreth, John Baer, Chalk's Jewell)  
Marglobe.

Globe (Walter Richard's Gulf State Market).

Greater Baltimore (Indiana Baltimore) or Stone (Red Rock, Norton, Wilt Resistant Stone).

Ponderosa.

Names of strains and selections given above in parenthesis shall not be certified as such but as varieties under which they may appear as a group. For instance: Burbank, Canadian and Penn State Earliana will be certified as Earliana. Likewise, Landreth, John Baer, Chalk's Jewell will be certified as Bonny Best, etc.

Varieties certified must show characteristics which are distinctive, uniform and sufficiently well fixed to justify certification. New and previously uncertified varieties may be accepted for certification after having been tested in trial plots and having proven their commercial value.

It is felt that these standards will tend to gradually eliminate varietal duplications and establish certain other varieties as standard. As will be noted, the list grouped above will cut the number of varieties from twenty-three to nine.

All tomato fields entered for certification are inspected once during the growing season. Most of the fields, however, are given two inspections and some of them are gone over three times. The first inspection is made at or about the time of the first picking and before any roguing is done. The plants at this time are undisturbed and show their natural growth tendencies better than later in the season after they have been picked over several times and have been pulled down by heavy fruit production. Type of fruit is also more characteristic at this time than later in the season.

While no systematic inspection is made of the seed extracting machinery, such equipment is checked to see that all possibilities of mixture or contamination are eliminated. As soon as the seed has been extracted it is properly labeled, fermented, washed and dried to show you that our growers have taken every precaution to avoid mixtures, it will be interesting to note that one of our seed growers has installed a separate line of seed-extracting machinery for each variety of seed grown. No two varieties are grown, washed, dried or stored on the same farm. After the seed has been dried, it is

# Glicks Seed Has Never Failed!

*Not a single acre  
on the  
Glick's Seed Farms  
has ever  
been rejected!*

## GLICK'S Certified TOMATO SEED

— Leading Varieties —

**HEALTH & VIGOR  
HIGHEST QUALITY  
ABSOLUTE PURITY**

**EACH VARIETY IS GROWN AND KEPT  
ON SEPARATE FARMS!**

Individual lines of seed-extracting machinery and equipment installed on each farm for that one variety only. **ABSOLUTE PURITY PREVAILS!**

**YOU GET THIS VITAL PROTECTION ONLY  
UNDER THE GLICK'S SEED FARMS' SEAL!**

— Glick's Seed Is —



Sealed and Certified

*In buying Certified Seed, — BE SURE IT'S GLICK'S SEED!*

Glick's Seed is GROWN ON  
**THE GLICK'S SEED FARMS**  
SMOKETOWN, Lancaster Co., PENNA.

(Ask for particulars.)

tested for germination by the Pennsylvania Department of Agriculture and then stored either in bulk or bags until it is shipped to the buyer. Most of the seed is packed in half pound and pound lots although it may be bought in packet sizes. When it is packed in the larger containers it is put up in such manner that the seal or packet must be broken to open the container. This is done in order to avoid tampering and assures the ultimate buyer of genuine

certified stock even though the seed might pass through several hands before it reaches the grower. The larger sized containers all bear the certification sticker of the Department of Agriculture.

Tomato stocks now being certified have all been given three years or more of selection work. No stocks will be accepted for certification unless they have had at least two years of hill-selection work prior to entry for certification.

## ***Glick's Improved Marglobe***

Glick's highly developed Strain of Marglobe is justly acclaimed by leading planters as **The Most Outstanding Tomato Ever Developed**. It is bred especially for critical planters who realize the value of quality and purity in tomato seed, and is noted for its extreme solidity, deep globe type and productiveness, as well as its disease resistance,—being exceptionally vigorous and healthy. Ripens a beautiful scarlet red, well up to the stem,—profitable for market gardeners, shippers and canners.

## ***Glick's Improved Pritchard (Scarlet Topper)***

This Improved Strain of Pritchard is becoming more popular every year. It is 10-12 days earlier than the Marglobe, and is disease resistant, making an extremely healthy growth. Vines are medium dense, self-topping,—and if fed liberally will produce an enormous crop of good sized deep globe-shaped, smooth, solid fruits of beautiful scarlet red color, both exterior and interior. **Have You Tried It?**

## ***Glick's Improved Grothen (Red Globe)***

**This is a Winner!** It has **Quality, Flavor, Extreme Solidity and Large Size** combined with **Earliness**. The Grothen's is well adapted to old tomato land, and is a very heavy producer of smooth, deep globe-shaped fruits, **Maintaining Large Size Until Late** in the season, producing large percentage of fancies. Exterior color resembles Marglobe, but ripens 10-12 days earlier,—the interior ripens up very slowly, making an excellent shipper. **"Our Folks" Cannot Say Too Much For This Tomato,—it is Demanded by Planters and Buyers** wherever known. **Be Sure to Give it a Trial.**

## ***The New Glovel***

Developed by the U. S. D. A., and the Homestead, Florida Experiment Station from the same parentage as the Marglobe. It has a colorless translucent skin, resembling the Globe in exterior color, but **the Interior is a Scarlet Red**. It has proven highly resistant to Fusarium Wilt and Nailhead rust, and a heavy yielder of firm, large, globular-shaped meaty fruits, ripening a few days earlier than the Marglobe. **This Seed is very Scarce! Order Your Share Early!**



**WARNING:**—Misrepresentations intended to deceive and disappoint planters are frequently made by some competitors. **For Your Protection** it is absolutely necessary that you **Insist on Getting Glick's Seed with Seal Unbroken.**

### **—YOU HAVE A RIGHT TO KNOW WHAT YOU PLANT—**

The risks and expenses involved in planting and growing a crop are too great to take chances on ordinary seed. If seed is to possess any special merits, **It Must Be Grown Right!** That's Our business,—since 1908, and we are **Growing on Quality.**

## **THE GLICK'S SEED FARMS**

**Smoketown, (Lancaster County), Pennsylvania, U. S. A.**

*"In buying Certified Seed—BE SURE IT'S GLICK'S SEED."*

**Sold and Recommended by**